

non-ipcc **Climatology toward Coming Climate Crisis.** 2013/6/16,7/14.

Coming climate change would rule the world, however **IPCC** the most responsible UN org will not work well !!! ,and **the fatal realities will not be disclosed !!!**. So, author strongly recommend **re-verification** on climate science superficially vague, but substantially decisive by **techno-science field people in general** the non-ipcc. In order to **quick learning**, summary of the physical foundations and many concerned informations are presented.

-The Contents-

preface by two topics

Part VI: non-carbon Energy Engineering <the overview as emergent extra chapter>

http://www.777true.net/Part_5_non-carbon-Energy-Engineering

Above all, energy problem is the highest priority at now than climate debates the ended.

Following chapters are not here at this time, but scheduled in hereafter.

Part I :Physical Foundation of "Numerical Weather Prediction".

chp1: Atmospheric Fluid Dynamics with various climate components

chp2: Actions of High and Low Pressure Air Mass (the basic flow mechanism).

Part II :Climate Change the Mechanism—what's going on ?!!!!.

chp1: "O" Dimensional Global Heat Model <fate of globe could be analysed>

chp2: Qualitative Analysis on Climate Becoming Wild in 3 dim model.

chp3: Typhoon-Hurricane and Strong Rain Fall are co-body for heat engine.

chp4: Strong Draught the humidity non-conserving mechanism_2

chp5: The cause of alternating strong heat wave and strong cold wave.

Chp6: The cause of strong floods.

Part III: Global Temperature by CO2 Emission Operation.

Global Surface Temperature Trend operated by GHG concentration

Part IV: Arctic Methane Catastrophe the Time Estimation.

chp1: Arctic Methane Catastrophe the introductory.

chp2: Time Estimation on Arctic Methane Catastrophe

Chp3: The most vulnerable hydrates are on the East Siberian Shelf !!!.

Part V: Geo-Engineering on Arctic Cooling and Oceans Cooling.

chp1: Arctic Cooling.

chp2: Oceans Cooling.

Part VI: non-carbon Energy Engineering.

http://www.777true.net/Part_5_non-carbon-Energy-Engineering

On now situation and possible counter measure against climate corrupting

So far author has been investigated, climate debate on **the substantial scientific predictions** had already **ended**, but the overwhelming judgement and **the counter measure** have not yet revealed to global public. The fatality is here and the aim of this report.

-the substantial scientific prediction -

- (1) Manmade global warming had been proved evident both by the observations and theory.
- (2) Conserving now emission would cause about $1^{\circ}\text{C}/30\text{yr}$. This is **decisively nothing relief**. Even **0-emission** would cause about max $0.3^{\circ}\text{C}/30\text{yr}$, even which could not be told safe.
- (3) **Arctic Methane Catastrophe the most emergent, but most hidden problem at now.** Arctic sea floor reserves mass destructive thermal bombs called **Methane Clathrate (MC)**. Destiny of the world depends also on **ice lid extent in Arctic**. Already **albedo feedback** have begun!! (ice extent retreat increases solar heat input, which accelerates more ice retreat) Arctic ocean warming of 1°C would be fatal to trigger MC bomb into **fireball earth** (~ 2040). **Only by emergent geo-engineering of Arctic Cooling can stop the albedo feedback !!!**
- (4) Coldest Arctic warming is to push outward more **cold waves**, while hottest equator push more **heat waves**, both are heat exchanging between both region and become alternatively **more hazardous** to be **stronger storms, floods, and draughts**. Collision of cold and hot air mass would cause climate more wild at anywhere.
- (5) Livelihood become more and more difficult due to **foods crisis & decaying social bases**,

-the possible global counter measure -

Following (1)(2) are **must** items

- (1) **Revolutional change in energy from carbon to non-carbon to maximize CO2 sink and to stop global temperature rise** (more than 80% CO2 cutting).
- (2) **Geo-engineering of Arctic Cooling to stop ice lid retreat (albedo feedback)**.

Following are optional items in the strict restricting condition of (1)(2).

- (3) **Oceans cooling to accomplish early realization of temperature stop and to prevent climate disasters worsen.**
 - (4) **Global forestization on land and marine to accelerate carbon sink.**
 - (5) **Design on global economy regime almost without carbon energy.**
 - (a) new energy development and foods saving tasks in climate becoming wild.
 - (b) design on new economy & administration regime with minimum carbon energy.
 - (c) Most of people become public servants and work by national plan in semi-wartime regime.
- Certainly those are outrageous, however without those operations, we would be extincted.

Opened Letter to global Climate Scientists from author(2013/7/11).

The Last Overwhelming Judgment of Science

Conclusionary to tell, it has been due to your **vague attitudes** that policy makers could not make decisive decisions to tackle against climate corrupting.

Time for climate debate may have already passed out !, but you must accomplish emergent debate to concentrate to be **unique global action** against Arctic Methane Catastrophe with more than 80% CO₂ global cutting(*0.3°C Crise). It is **the last overwhelming judgment of science!!!**. Already, we have not sufficient time anymore <see climate time estimation table. <http://www.777true.net/Climate-Time-Estimation-Table.pdf>

*Even possible minimum 0.3°C rise could not be told safe as for Arctic and global.

Thereby, geo-engineering becomes necessary.

<http://arctic-news.blogspot.jp/p/the-need-for-geo-engineering.html>

<http://www.777true.net/EGT5.pdf>

1)Goedel's **Completeness Theorem** proved unique being of truth in theory which could be either deterministic or probabilistical.

2)Warning by Arctic Methane Emergent Group.

Unless emergent drastic global counter measure, **2015±2** would be tipping point toward fireball earth in **few decades** !!.

<http://www.ameg.me/>

<http://arctic-news.blogspot.jp/p/global-extinction-within-one-human.html>

<http://www.777true.net/Time-Estimation-on-Arctic-Methane-Catastrophe.pdf>

Even as though, we could not be enough. The last possibility is **geo-engineering for Arctic cooling and Oceans cooling** .

<http://arctic-news.blogspot.jp/p/how-to-cool-arctic.html>

<http://arctic-news.blogspot.jp/>

Certainly the scale of geo-engineering is outrageous !!!, however the scale of **coming hell** by climate disasters with ethical corruption in decades would be more outrageous !!!!!.

If people could have known the reality of the latter ,they would opt way with global geo-engineering !!! ..

3)To tell from very origin of the cause, **the Global Capitalism Regime with OIL** by the minor noble elites has been ruling this world not to reveal the fatal reality. Thereby before taking those task, we have to accomplish **global revolution to turn upside down this world!!**

<http://www.777true.net/New-Regime-Design-to-Turn-the-Upside-Down-World-at-Now.pdf>

<http://www.777true.net/The-Upside-Down-World.pdf>

Even **such revolution** could be possible by your **the last overwhelming judgment of science** !

4) From the Liberation (France), president Putin is told to delete the Russian Academy of Science ?, however I could not know the reason. In my view, also global climate researchers association should be deleted in order to accomplish **the last overwhelming judgment of science** and declare globally and loudly **Arctic Methan Catastrophe Warning** toward global people. Because, the Time for climate debate may have already passed out !! It is the last your duty (the sacred war). After all, you would be nothing, but become **hero !!!**. This is also no regret policy for climate scientists themselves.

5) I wish also to know your **plans** for **geo-engineering for Arctic cooling and for Oceans cooling** ,,,,,,,,,,,,,, and for **how to live in tough global new regime against climate corrupting (politico-economy design)**. Another decisive task may be **revolution in non-carbon energy engineering**, as for it, see attached PDF, however it is incomplete note at now.

6) Also president Obama once told , I will will will direct my Cabinet to come up with executive actions we can take, now and in the future,
<http://www.whitehouse.gov/state-of-the-union-2013>

Or we can choose to believe in the overwhelming judgment of science--and act before it's too late.

Truly yours, editor:motoji-SUZUKI.,

PS: Certainly last chapter of **the Bible** warned coming doomsday of mankind due to their sin. However the Bible's main mission is teach on mankind's repentance, which is nothing, but revolution.

The Bible, Ephesians. 6:12 For we wrestle not against flesh and blood, but against principalities, against powers, against the rulers of the darkness of this world, against spiritual wickedness in high places. Wherefore take unto you the whole armour of God, that ye may be able to withstand in the evil day, and having done all, to stand. Stand therefore, having your loins girt about with truth, and having on the breastplate of righteousness; And your feet shod with the preparation of the gospel of peace; Above all, taking the shield of faith, wherewith ye shall be able to quench all the fiery darts of the wicked.

In this part VI, we entirely seek necessary non-carbon energy engineering to simultaneously adapt carbon reduction and to save our lives. It must be drastic change in the civilization.

Our target is **more than 80% reduction**, which is minimum to save this world.

The **optimization** of global energy policy needs good planning and exact simulation.

However, this report is mere instant ideas collection only, but not a complete one.

(1) Overwhelming **oil industry ruling** has been suppressing **non-carbon engineering**. Without which, we could have already gotten good non-carbon energy engineering !!! Author noticed that **less popularization of renewable energy** is due to the higher cost (than carbon energy), which might be something conspiratorial. For example, wind turbine plant cost and that of photovoltaics happen to be almost the same. Possible massive energy of **solar heat** and **marine energy** seems not to have been faithfully being developed and popularized. **Conclusionally to tell, there are many mysteries and tragedies (N. Tesla, Stanley Meyer, Bruce DePalma,) around new energy technology !!!**. This is also actual experience of author-himself (B wave technology).

(2) Total report on "renewable energy" is here.

http://en.wikipedia.org/wiki/Renewable_energy

http://www.google.co.jp/search?q=renewable+energy+cost+comparison&sa=X&hl=ja&rlz=1T4GGHP_jaJP526JP526&tbm=isch&tbo=u&source=univ&ei=hY3BUe7fMsPSkwWZmYD4CA&ved=0CC4QsAQ&biw=1280&bih=732

(3) **Carbon energy usage must absolutely be limited only basic and special needs.**

It could not be banned for people who could not cook without carbon energy.

Another special exception is very important problem.

The most heat consuming in homes is **bathing**, which must be solar heater.

(4) **The best cost performance is most established classical method of solar heater for cooking, water boiling, & wind turbine electric power generating.**

http://www.google.co.jp/search?q=solar+heater+pictures&hl=ja&rlz=1T4GGHP_jaJP526JP526&tbm=isch&tbo=u&source=univ&sa=X&ei=pUxrUZHICpOjiQfF2IGgCQ&ved=0CC8QsAQ&biw=1280&bih=732

http://www.google.co.jp/search?q=solar+heater+cooker,pictures&hl=ja&rlz=1T4GGHP_jaJP526JP526&tbm=isch&tbo=u&source=univ&sa=X&ei=UxrUzfVLSnliAfi8IHQCQ&ved=0CC8QsAQ&biw=1280&bih=732

http://www.google.co.jp/search?q=wind+turbine&hl=ja&rlz=1T4GGHP_jaJP526JP526&tbm=isch&tbo=u&source=univ&sa=X&ei=dF1tUfzHKomhiAeyt4HYBQ&ved=0CEcQsAQ&biw=1280&bih=732

(5) **classical hydroelectricity.**

<http://en.wikipedia.org/wiki/Hydroelectricity>

This established technology is good performance in cost and stability. **Global electrical power consumption** is estimated about **12x10¹²Kw**, while **undeveloped potential resources** in advanced nations is estimated about **17x10¹²Kw**, which is outrageous sources !!! ☞ : the big construction sometime face environmental corruption.

(6) **micro hydroelectricity**

Undeveloped resources are estimated 1.2x10⁶Kw(2004) in Japan

http://www.google.co.jp/search?q=micro+hydroelectricity&hl=ja&rlz=1T4GGHP_jaJP526JP526&tbm=isch&tbo=u&source=univ&sa=X&ei=4nHBUZrTNYeckgX7j4CgDA&ved=0CDcQsAQ&biw=1280&bih=732

(7) **stabilized geothermal energy has good potential at lucky volcano areas.**

http://en.wikipedia.org/wiki/Geothermal_energy

<http://zasshi.news.yahoo.co.jp/article?a=20130611-00000713-playboyz-soci>

Estimated possible resource amount are USA=3GW, Indonesia=2.78GW, Japan 2.35GW (consuming total=34GW), philippine=0.6x10⁶ k W

(8) **marine energy for electric power and H2 gas generation** <G = 10⁹, T = 10¹²>.

https://en.wikipedia.org/wiki/Marine_energy

Theoretical global ocean energy resource Capacity(GW)	Annual gen. (TW-h)	Form
5,000	50,000	Marine current power
20	2,000	Osmotic power
1,000	10,000	Ocean thermal energy
90	800	Tidal energy
1,000—9,000	8,000—80,000	Wave energy
17,000	150,000	Oceanogenic Power

Offshore Marine(& Wind) Energy could be expected huge energy resource for **generating hydrogen gas** by electrical power due to marine and wind energy, then the gas could be transported to lands by ships. **Then hydrogen gas could become alternative with oil.**

http://www.riam.kyushu-u.ac.jp/windeng/en_aboutus_detail04_03.html

<http://www.f-suiso.jp/bunkakai.html>

(9) **high efficiency wave power generator by using gyro.**

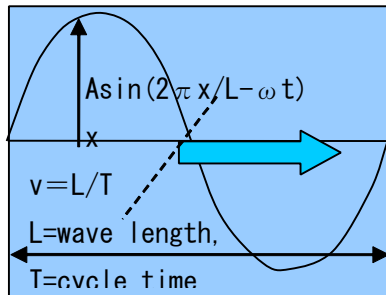
(a) Sea wave at near coast has energy density **few KW/m**, and **few 10Kw/m** in ocean.

<http://jstshingi.jp/bunya/pdf/072807.pdf>

<http://members.jcom.home.ne.jp/kobysh/experiment/gyro/gyro.html>

Total wave power resource in Japan coast lines = 36GW.

http://www.rist.or.jp/atomica/data/dat_detail.php?Title_No=01-05-01-08



(b) **Wave Energy Calculation(mass potential energy):**

$$P = \int_0^{L/2} dx \int_0^{f(x)} dy \cdot y \cdot g \cdot \rho$$

$$= g \rho \int_0^{L/2} dx \int_0^{f(x)} dy \cdot y = (g \rho / 2) \int_0^{L/2} dx f(x)^2$$

$$= (A^2 g \rho / 2) \int_0^{L/2} dx \sin^2(2 \pi x / L) = (LA^2 g \rho / 8)$$

$$W = 2Pf = 2P/T = vA^2 g \rho / 4.$$

* $\cos 2x = \cos^2 x - \sin^2 x = 1 - 2\sin^2 x$. $\sin^2 x = (1 - \cos 2x) / 2$

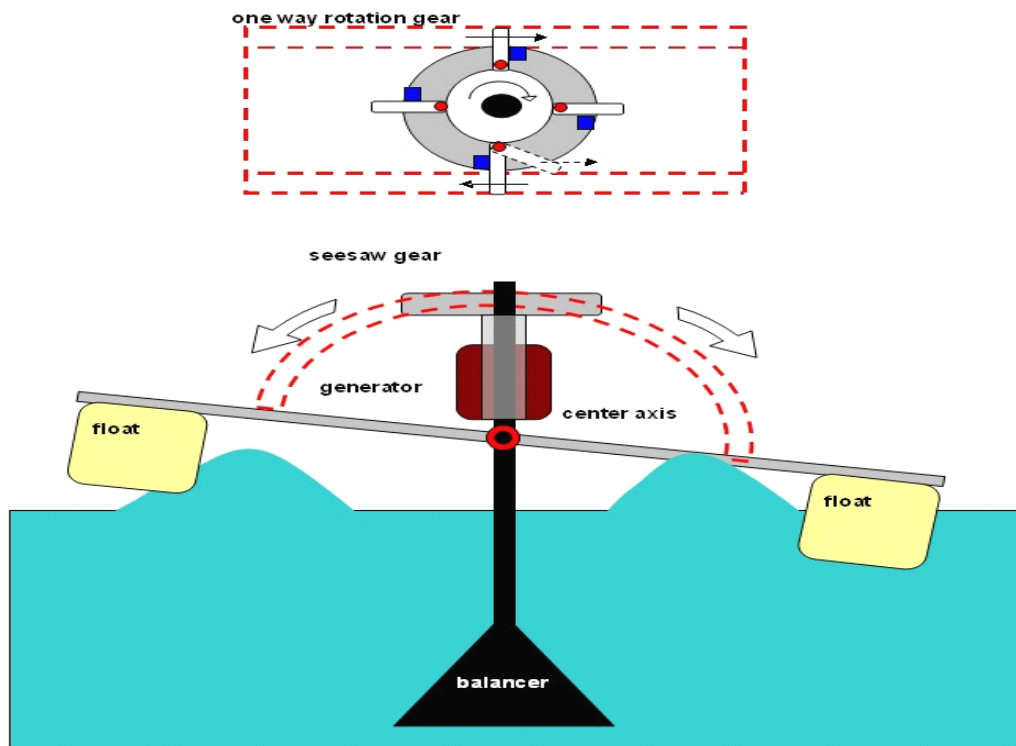
$P = (A^2 g \rho / 2) \int_0^{L/2} dx \sin^2(2 \pi x / L) = (A^2 g \rho / 4) \int_0^{L/2} dx [1 - \cos(4 \pi x / L)] = (LA^2 g \rho / 8)$

$f = 1/T$; $W = 2fP = 2(LA^2 g \rho / 8T) = vA^2 g \rho / 4.$

Example) $v = 3\text{m/s}$, $A = 1.5\text{m}$, $g = 9.8\text{m/s}^2$, $\rho = 1000\text{kg/m}^3$. $\rightarrow W = 16.5\text{KW/m}$

$v = 2\text{m/s}$, $A = 1.0\text{m}$, $g = 9.8\text{m/s}^2$, $\rho = 1000\text{kg/m}^3$. $\rightarrow W = 4.9\text{KW/m}$

(c) Following is author's instant idea of wave power generator by direct mechanical energy transformation(however, this is **not assured by experiment**)..



(10) **Solar Photovoltaics plant cost: 1KW plant cost ≙ ¥285000、**

SOLAR FRONTIER 5.775kWシステム 165W×35枚
304,000円 - 補助金 20,000円
284,000円 1kWあたり
総合計: 1,640,100円 工事費、諸費用、消費税全て入ったセット料金。 ※補助金適応金額

【カナディアンソーラー 太陽光発電】出力保証25年！単結晶で最安！費用対効果が高い！

CanadianSolar 4.0kWシステム 200W×20枚
305,000円 - 補助金 20,000円
285,000円 1kWあたり
総合計: 1,140,000円 工事費、諸費用、消費税全て入ったセット料金。 ※補助金適応金額

【ハンファ 太陽光発電】日照補償で日照率が悪くてもハンファが年間5万円まで補償！

Hanwha Solar 6.0kWシステム 200W×30枚
308,000円 - 補助金 20,000円
288,000円 1kWあたり
総合計: 1,728,000円 工事費、諸費用、消費税全て入ったセット料金。

円=yen(28500yen=285\$), 1KW あたり = per 1Kw.

(11) **Wind Turbine plant cost: 1KW plant cost ≙ ¥250000、 < 1 \$ ≙ ¥100 >**

(a) 2.5MW is typical output power with cost 1unit(2MW)=0.5b¥.

Global resource for wind turbine is about 58.8TW, while global consuming is 14TW.

power demand in Japan=35GW,

<http://ja.wikipedia.org/wiki/%E9%A2%A8%E5%8A%9B%E7%99%BA%E9%9B%BB>

(b) **"Maximum theoretical efficiency of wind turbine $\eta = L_{max}/W=0.593$ ";**

<http://www.rm koubou.mce.uec.ac.jp/contents/Report/windcar/column-2.html>

constant= $\rho V^2 / 2 + P + g \rho$. (Energy conservation law by Bernoulli Theorem).

"Actual efficiency $\eta = 20 \sim 45\%$ "

(c) **L = output power calculation with wind attenuation rate = a (0 < a < 1)、**

$$L(W) = \pi R^2 \rho V^3 (1-a) (1+a)^2 / 4$$

$W = \pi R^2 \rho V^3 / 2$. . . input wind kinetic energy.

example calculation:

$$\rho = 1.2 \text{kg/m}^3, R = 75\text{m}, V = 16\text{m/s.} \rightarrow W = 1700\text{KW} (\eta = 40\%).$$

$$\rho = 1.2 \text{kg/m}^3, R = 75\text{m}, V = 6 \text{m/s.} \rightarrow W = 690\text{KW} (\eta = 30\%).$$

http://www.mhi.co.jp/products/expand/wind_kiso07.html

<http://www.rm koubou.mce.uec.ac.jp/contents/Report/windcar/column-4.html>

(12) **Amazing Saphonian Blade-less Wind Turbine !!! .**

This is **revolutional technology** overcoming ordinal wind turbine efficiency and cost !!!.

<http://www.gizmag.com/saphonian-bladeless-wind-turbine/24890/>

<http://www.greenoptimistic.com/2012/11/08/saphonian-bladeless-wind-turbine/>

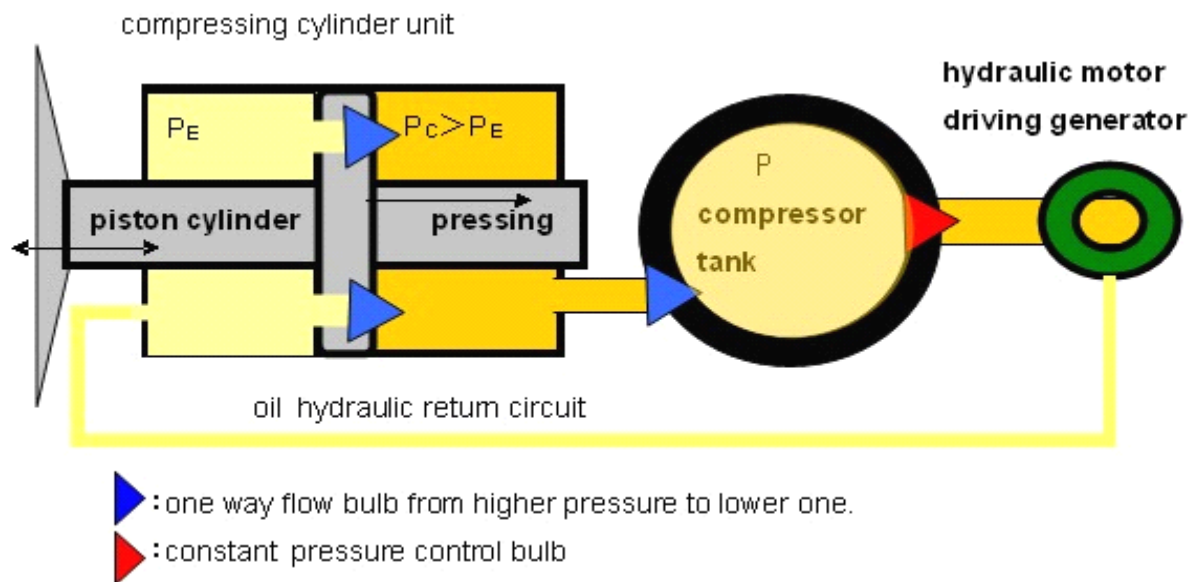
<http://www.defence.pk/forums/middle-east-africa/245228-saphonian-future.html>

(a) **hydraulic system configuration**(imagined by author,so not assured).

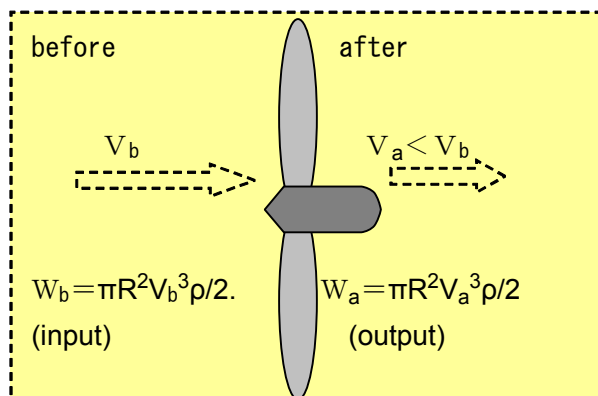
<http://image.gihyo.co.jp/assets/files/book/2009/978-4-7741-3781-0/9784774137810-01.pdf>

http://en.wikipedia.org/wiki/Hydraulic_pump

Author could not look the detailed mechanism of the Saphonian,so following are his imagined ones. Almost wind kinetic energy is transformed to pressure one in the Saphonian,which is a kernel of **higher efficiency** than that of ordinal wind turbine.

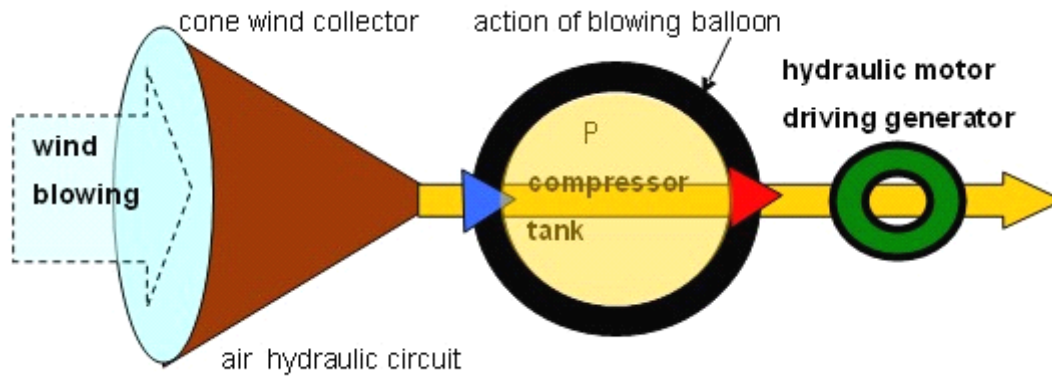


(b) **"Why ordinal wind turbine can not be high efficiency ?!!!".**



If we could $V_a = 0$ ($\eta = 1$), then maximum efficiency could be accomplished. However normal wind turbine could not, but $\eta < 40\%$.

(c) Below is modified version by author. Cone acts as **pressure amplifier** with high efficiency (however, this is **not assured by experiment**).



hydraulic motor(gear)motor has high efficiency as 90%.

(d): constant energy density = $\rho V^2/2 + P + \rho g$. **(Bernoulli Theorem).**

1atm = $1.01325 \times 10^5 \text{N/m}^2$.

$\rho = 1.2 \text{kg/m}^3$, $V = 6 \text{m/s} \rightarrow W = \rho V^3/2 = 216 \text{W/m}^2$.

If cone mouth area $S = 10 \text{m}^2$ ($R = 1.8 \text{m}$), $S W = 2.16 \text{KW/m}^2$.

Then unit faces strong wind force, so the construction must be tough enough.

(13) **Solar Heater: 1KW/m² plant cost \approx ¥ 1000 ~ ? (the lowest cost plant !!!)**,

It is curious **the best cost performance** tools could not have been popularized in global.

Especially **water heating is most heat consumptive**, while this tech does not become popular.

Solar water heating basics

http://www.builditsolar.com/Projects/WaterHeating/water_heating.htm#Basics

Solar Water Heating

<http://www.wbdg.org/resources/swheating.php>

<http://www.homepower.com/>

DESIGN AND DEVELOPMENT OF A **PARABOLIC DISH** SOLAR WATER HEATER

http://www.ijera.com/papers/Vol2_issue1/EF021822830.pdf

Design principle and the calculations.

<http://www.777true.net/Solar-Heater-the-principle-and-the-design.pdf>

<http://www.777true.net/the-extra-corrected-version.pdf>

<http://www.777true.net/heat-insulator-by-doble-Al-shield.pdf>

(14) **an energy alternative with oil(=hydrogen gas for vehicles).**

In global regime of **80% CO2 reduction**, energy for **transportation** is serious. Since almost now vehicle has been depending on **oil**. A possible way for mitigation may be as follows, which are not due to exact calculation with data, but author's coarse imagined one. Now you should be almost a homeless, but not wish to be in past wasteful life, **or will you wish hell ?**.

I : **Local Self-Sufficiency** by producing and consuming by a local area-ownselves.

This is the best policy, however, **minimum goods exchanging** between areas would be necessary for the time being. Then following would be favorable.

II : **Electrical Rail Way(trolley car, subway) the best energy performance on lands**,

Efficiency of electrical motor(> 200W) is told more than **70%**.

Especially de-acceleration generates power.

III : **Ship for mass transportation on sea and rivers.**

Larger Sailboat is best,

IV : **no airplane, but balloon ship.**

V : **cattles usage as old fashion, bicycle life is best in area,**

VI : **"massive hydrogen gas supplying" by non-carbon electrical powers**

This may be unique alternative with oil for the time being.

Thereby, **hydrogen gas generation(=HG) technology** is decisive in failure or success of operation GLOBAL RAMADAN aiming global salvation in climate crisis.

(a) **water fuel=hydrogen gas generation by non-DC, but pulse current electrolysis.**

<http://www.777true.net/Water-Electrolysis-by-Charge-Density-Wave-could-Create-Energy.pdf>

This is also called **water fuel** (by Stanley Meyer USA). Gas energy is larger than electrical power input in the electrolysis. Why can the energy come from ?!. In author's view, It is due to **charge density wave(CDW)** current, which is radiated from capacitive antenna. without no power consuming but some loss energy. More essentially to tell, it is due to

$0 = \text{positive matter energy} - \text{negative gravity field}$ (energy conservation law).

<http://www.777true.net/BWG.pdf>

This universe-itself was created from nothing energy by this way(authorized theory).

Positive energy increase is related with mass one as $\Delta E = \Delta mc^2$ by Einstein formula.

Then mass increase also increases **gravity field** intensity which is negative energy.

As is electrolysis of chemical reaction with small electrode, gas generation amount could not be so much, however small vehicle is told to be driven by the energy. If author has enough time and money, he has been wishing to join the R&D.

(b) **Massive H₂ Gas Generation by Offshore Marine(& Wind) Energy.**

Offshore Marine(& Wind) Energy could be expected huge energy resource for **generating hydrogen gas** by electrical power due to marine and wind energy, then the gas could be transported to lands by ships. **Then hydrogen gas could become alternative with oil.**

http://www.riam.kyushu-u.ac.jp/windeng/en_aboutus_detail04_03.html

<http://www.f-suiso.jp/bunkakai.html>

Of course, it could be also in land by wind-turbine faculty.

(c) **Brown Gas:**

Similar with water fuel, so called Brown gas has been being neglected both in established academism and industry. This is also told over 100% efficiency. However author could not have sufficient learning and physical validity, however which never means denying, but some had already established actual business.

What is Brown's Gas

<http://www.eagle-research.com/browngas/whatisbg/whatis.php>

Brown Gas.com

<http://browngas.com/>

OHMASA-GAS(Japanese)

<http://www.ktpc.or.jp/kp/101600/product-16.html>

Neutralization of radio active contaminants by Brown Gas !!

<http://www.777true.net/Brown-Gas-the-mechanism-of-the-obscurity.pdf>

<http://www.777true.net/Real-Image-of-quantum-Chemical-Reaction.pdf>

Brown Gas burning is implosion (rapid gas volume shrinking) which can cause **charge vanishing effect (charge implosion)**. It is strong catalyzer field overcoming electric potential barrier of chemical bonding to melt metal. Maybe radio active (quantum) state of nuclei could **transit** to ground state by exterior perturbation to nuclei by the effect.

*it is a **pradox** that separated charges at **unit volume** can cause **strong electric field**, while many gathered charges at unit volume become less electric field within the volume, but fact proved by exact and simple math concept. People who hate with each other never come together (repulsive) when they can face in low crowded condition, while high crowded condition, they could not face, but except **their instantaneous collision**.